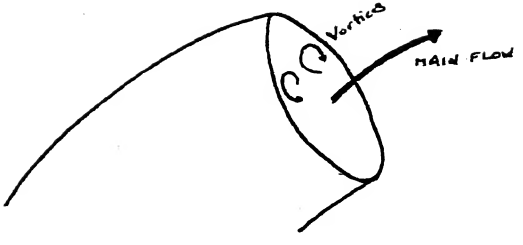
Fig. 1



Prior Art

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Fig. 2

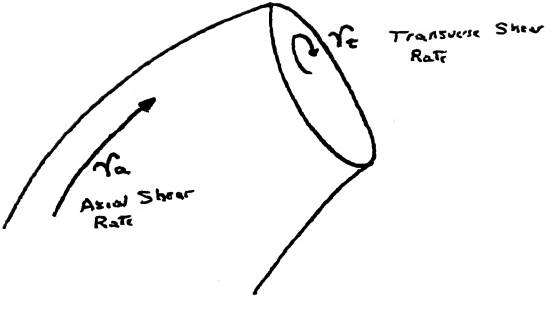

Fig. 3

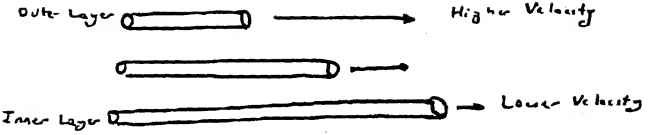

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Fig. 4

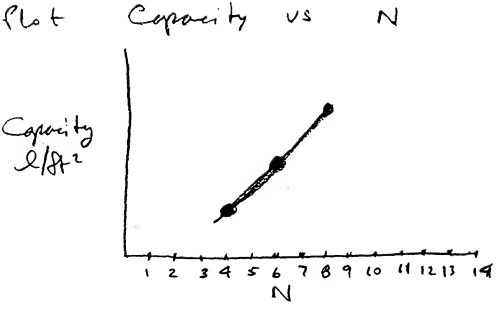

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Fig. 5

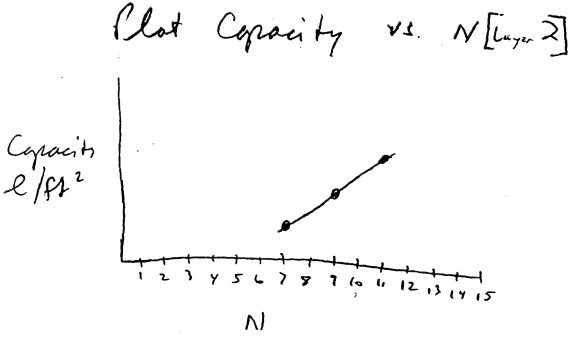
Plot Capacity vs. N [Layer 2]
Capacity
e/ft²
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
N

Fig. 6

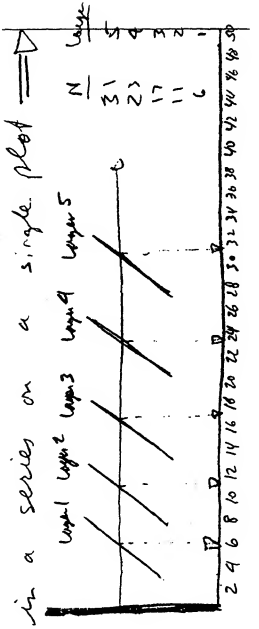

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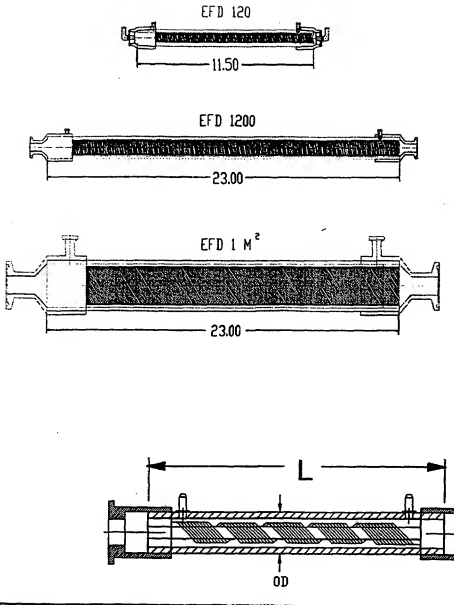
Fig. 7



Type	Area	# of fiber layers	Shell Length "L" (in.)	Shell O.D. (in.)	# of Fibers/ Device	Fiber Length (in.)	Equiv. Dean # (@ 2psi)
Lab Scale	120 sq.cm	1	11.5	.75	4	38	203
Pilot Scale	1200 sq.cm	3	23	1.1	40	35	210
Process Scale	1 sq.m.	11	23	2.4	300	37	110
	2 sq.m.	16	23	2.9	590	37	104

*assumes fiber 1.3mm ID x 2mm OD

Fig. 8

EXPERIMENTS DEMONSTRATING SCALING BETWEEN LABORATORY AND MANUFACTURING SCALE MODULES

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EFD MODULE DESIGNS

SECTION VIEWS

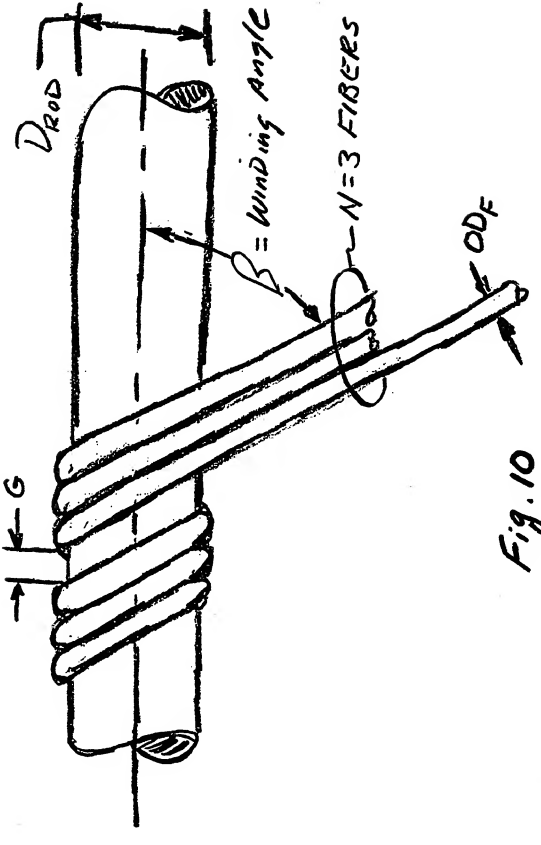

Fig. 10

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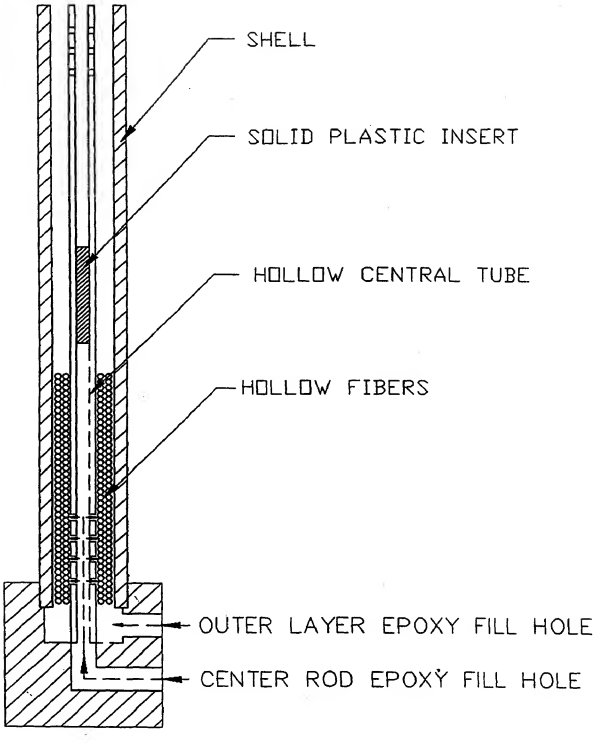

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